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Water-Data Report 2008

**02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°09'52", long 80°51'11" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Seneca Place, 0.8 mi upstream from mouth, and 4 mi south of city hall in Charlotte.

DRAINAGE AREA.--2.63 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 1982 to September 1990, October 1994 to current year. Annual maximums only, water years 1967-1970.

REVISED RECORDS.--WDR NC-85-1: 1984 (P). WDR NC-88-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 597.32 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow occurred periodically in 1986, 1987, 1988, 2001, 2002, 2007, 2008. Maximum discharge for period of record from rating curve extended above 1,700 ft<sup>3</sup>/s.

**02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.00	0.14	0.16	0.39	24	0.41	1.4	0.39	0.16	0.16	0.19	0.45
<b>2</b>	0.00	0.14	0.17	0.28	0.86	0.41	0.90	0.35	0.22	0.16	0.15	0.38
<b>3</b>	0.00	0.15	0.16	0.24	0.50	0.44	3.4	0.31	0.14	0.15	0.16	0.32
<b>4</b>	2.8	0.13	0.19	0.23	0.42	35	4.3	0.29	0.14	0.14	0.15	0.30
<b>5</b>	0.25	0.14	0.20	0.23	0.37	4.2	4.0	0.27	0.10	1.1	0.14	0.29
<b>6</b>	0.10	0.15	0.20	0.24	0.41	1.1	1.0	0.27	0.10	2.4	0.11	0.27
<b>7</b>	0.07	0.14	0.20	0.24	0.50	8.5	0.72	0.26	0.12	0.22	0.11	0.17
<b>8</b>	0.05	0.17	0.22	0.23	0.30	2.0	0.57	0.26	0.13	21	0.13	0.19
<b>9</b>	0.05	0.33	0.22	0.23	0.29	0.94	0.59	0.33	0.14	1.4	0.11	0.22
<b>10</b>	0.01	0.72	0.15	3.3	0.27	0.84	0.67	0.22	0.15	0.82	0.18	9.0
<b>11</b>	0.00	0.80	0.24	1.2	0.28	0.81	0.83	1.9	5.3	0.40	0.15	2.2
<b>12</b>	0.00	0.76	0.22	0.32	0.34	0.74	3.1	0.26	0.46	0.25	0.13	0.40
<b>13</b>	0.00	0.61	0.18	0.29	4.8	0.70	0.59	0.19	0.12	19	4.4	0.28
<b>14</b>	0.00	0.30	0.19	0.27	0.69	0.65	0.51	0.18	0.17	0.93	0.31	0.22
<b>15</b>	0.00	0.81	6.7	0.26	0.36	26	0.47	0.19	0.23	0.29	1.3	0.25
<b>16</b>	0.00	0.29	8.5	0.26	0.32	3.1	0.45	1.1	0.21	0.23	2.2	19
<b>17</b>	0.00	0.24	0.31	13	0.36	1.3	0.47	0.19	0.19	0.20	4.4	2.0
<b>18</b>	0.06	0.31	0.21	0.74	0.72	1.1	0.44	0.39	0.18	0.20	0.25	0.39
<b>19</b>	4.2	0.34	0.23	3.3	0.29	10	0.45	0.25	0.25	0.20	0.17	0.28
<b>20</b>	0.13	0.30	0.21	0.73	0.30	2.0	0.43	0.33	7.0	0.19	0.15	0.25
<b>21</b>	0.12	0.33	2.5	0.34	1.3	1.1	0.42	0.27	5.1	0.19	0.16	0.23
<b>22</b>	0.07	0.59	0.30	0.95	3.1	1.0	0.39	0.15	16	9.1	0.17	0.22
<b>23</b>	0.11	0.16	1.6	0.54	0.45	1.1	0.36	0.15	2.3	1.8	0.15	0.21
<b>24</b>	4.6	0.16	0.33	0.31	0.32	1.1	0.37	0.23	0.23	0.29	0.14	0.19
<b>25</b>	6.4	0.40	0.20	0.26	0.32	1.1	0.36	0.15	0.20	0.20	3.0	0.21
<b>26</b>	9.3	0.91	6.2	0.28	5.9	1.2	10	0.16	0.39	0.22	81	22
<b>27</b>	0.49	0.39	0.36	0.28	0.57	1.2	10	0.16	2.2	0.21	104	8.3
<b>28</b>	0.17	0.23	7.4	0.29	0.44	1.3	20	5.6	0.18	0.17	1.2	0.63
<b>29</b>	0.13	0.16	2.6	0.26	0.40	1.2	0.96	0.35	0.14	0.25	4.0	0.41
<b>30</b>	0.13	0.16	16	0.80	---	1.2	0.50	0.18	0.15	0.24	8.9	0.36
<b>31</b>	0.14	---	1.4	0.25	---	1.8	---	0.16	---	0.20	1.2	---
<b>Total</b>	29.38	10.46	57.75	30.54	49.18	113.54	68.65	15.49	42.40	62.31	218.81	69.62
<b>Mean</b>	0.95	0.35	1.86	0.99	1.70	3.66	2.29	0.50	1.41	2.01	7.06	2.32
<b>Max</b>	9.3	0.91	16	13	24	35	20	5.6	16	21	104	22
<b>Min</b>	0.00	0.13	0.15	0.23	0.27	0.41	0.36	0.15	0.10	0.14	0.11	0.17
<b>Cfsm</b>	0.36	0.13	0.71	0.37	0.64	1.39	0.87	0.19	0.54	0.76	2.68	0.88
<b>In.</b>	0.42	0.15	0.82	0.43	0.70	1.61	0.97	0.22	0.60	0.88	3.09	0.98

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2008<sup>a</sup>, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	2.13	2.79	2.91	3.67	4.47	4.34	3.26	2.86	2.92	2.90	3.28	2.39
<b>Max</b>	5.05	10.5	10.5	9.46	8.96	9.67	10.9	15.5	12.6	13.8	11.0	8.17
(WY)	(1990)	(1986)	(1984)	(1998)	(1990)	(2003)	(2003)	(2003)	(2003)	(1997)	(2006)	(1989)
<b>Min</b>	0.26	0.35	1.09	0.85	0.91	1.03	0.66	0.50	0.22	0.31	0.19	0.30
(WY)	(2001)	(2008)	(2001)	(2004)	(2002)	(1985)	(2002)	(2008)	(1986)	(1986)	(1987)	(2007)

**SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>	<b>Water Years 1983 - 2008<sup>a</sup></b>
<b>Annual total</b>	690.97	768.13	
<b>Annual mean</b>	1.89	2.10	3.15
<b>Highest annual mean</b>			6.32
<b>Lowest annual mean</b>			1.66
<b>Highest daily mean</b>	76	Mar 2	104 Aug 27
<b>Lowest daily mean</b>	0.00	Sep 12	0.00 Oct 1
<b>Annual seven-day minimum</b>	0.00	Sep 26	0.00 Oct 11
<b>Maximum peak flow</b>		1,240 Aug 27	b2,590 Jun 7, 2003
<b>Maximum peak stage</b>		7.69 Aug 27	9.89 Jun 7, 2003
<b>Instantaneous low flow</b>		b0.00 Oct 1	b0.00 Jul 14, 1986
<b>Annual runoff (cfsm)</b>	0.720	0.798	1.20
<b>Annual runoff (inches)</b>	9.77	10.86	16.29
<b>10 percent exceeds</b>	4.3	4.3	5.8
<b>50 percent exceeds</b>	0.66	0.30	0.84
<b>90 percent exceeds</b>	0.08	0.14	0.22

<sup>a</sup>See Period of Record.<sup>b</sup>See Remarks.